

WEST Search History

DATE: Tuesday, June 14, 2005

Hide? Set Name Query**Hit Count***DB=PGPB,USPT; PLUR=YES; OP=ADJ*

<input type="checkbox"/>	L7	12 and 16	1
<input type="checkbox"/>	L6	14 and 15	116
<input type="checkbox"/>	L5	reaction chamber	25085
<input type="checkbox"/>	L4	13 and vertical	808
<input type="checkbox"/>	L3	cylindrical reactor	1855
<input type="checkbox"/>	L2	11 and (olefin or olefinic\$ or unsaturated)	3964
<input type="checkbox"/>	L1	hydroformylation or oxo process or oxo reaction or oxo synthesis	4981

END OF SEARCH HISTORY

10/073,248

=> d his

(FILE 'HOME' ENTERED AT 12:43:55 ON 14 JUN 2005)

FILE 'CAPLUS' ENTERED AT 12:44:16 ON 14 JUN 2005

L1	9174 S HYDROFORMYLAT? OR OXO PROCESS OR OXO REACTION OR OXO SYNTHESI
L2	2924 S L1 AND OLEFIN?
L3	1168 S CYLINDRICAL REACTOR?
L4	11914 S REACTION CHAMBER?
L5	16 S L3 AND L4
L6	1 S L2 AND L3
L7	0 S L2 AND L5
L8	0 S L5 AND SERIES
L9	0 S L5 AND JET PUMP
L10	3 S L5 AND VERTICAL?

10/073,248

L10 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1979:189235 CAPLUS
DOCUMENT NUMBER: 90:189235
TITLE: Reactor for phosphoric acid manufacture
PATENT ASSIGNEE(S): Institutul de Inginerie Tehnologica si Proiectare
pentru Industria Chimica (IITPIC), Rom.
SOURCE: Belg., 11 pp.
CODEN: BEXXAL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 868689	A1	19781103	BE 1978-189033	19780703
RO 67651	B	19821011	RO 1978-92938	19780118
FR 2415074	A1	19790817	FR 1978-18907	19780623
PRIORITY APPLN. INFO.:			RO 1978-92938	A 19780118

AB A **cylindrical reactor** is described for treating phosphate rock with H_2SO_4 , removing $CaSO_4$, and collecting H_3PO_4 . The reactor has 1 **vertical** sinusoidal-shaped, 1 **vertical** circular, and a **vertical** partition of different heights which sep. it into 3 compartments: the 1st compartment is the mixing chamber, the 2nd is the **reaction chamber** which is cooled with air, and the 3rd is the $CaSO_4$ crystallization chamber.

L10 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1978:76010 CAPLUS
DOCUMENT NUMBER: 88:76010
TITLE: Reactor for producing carbon black
INVENTOR(S): Surovikin, V. F.; Kazakov, L. S.; Rogov, A. V.;
Tesner, P. A.
PATENT ASSIGNEE(S): All-Union Scientific-Research Institute of
Technical-Grade Carbon, USSR
SOURCE: Brit., 8 pp.
CODEN: BRXXAA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1481152	A	19770727	GB 1976-8131	19760301
PRIORITY APPLN. INFO.:			GB 1976-8131	A 19760301

AB A reactor is described for the high-speed manufacture of fine homogeneous carbon blacks from hydrocarbon feedstocks. Preheated pressurized air is fed into a **vertical** chamber and passed into horizontal pipes which contain burners which are fed with fuel and lead into a horizontal cylindrical chamber of diameter greater than its length where complete burning of the fuel with excessive air occurs. The combustion chamber contains a nozzle for optional injection of feedstock and the combustion products are fed to a **reaction chamber** through a horizontal narrow connecting chamber surrounded by a cooled protective diaphragm which prolongs the service life of the reactor. Feedstock is injected into the gases flowing through the connecting chamber and thermooxidative decomposition of the feedstock occurs in the horizontal **cylindrical reactor** which contains nozzles for spraying coolant and has a diameter intermediate between that of the combustion and connecting chambers.

10/073,248

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:610345 CAPLUS
DOCUMENT NUMBER: 137:156434
TITLE: Process and apparatus for **hydroformylation**
of **olefins**
INVENTOR(S): Zehner, Peter; Nilles, Michael
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1231198	A1	20020814	EP 2002-3057	20020212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
DE 10106482	A1	20020814	DE 2001-10106482	20010213
JP 2002249453	A2	20020906	JP 2002-34464	20020212
US 2002159930	A1	20021031	US 2002-73248	20020213
PRIORITY APPLN. INFO.:			DE 2001-10106482	A 20010213

AB A continuous process for **hydroformylation** of $C \geq 6$
olefins with synthesis gas in the presence of homogeneous catalyst
is carried out in a vertical **cylindrical reactor** the
inner volume of which is divided in ≥ 2 consecutive compartments. The
olefins together with synthesis gas are introduced at the lower
end of the 1st compartment whereas the mixture containing partially converted
reaction components flows from the top toward the bottom of the
compartment. The **olefins** are withdrawn from the top of the last
reactor compartment. The process is illustrated by means of a math.
simulation based on a kinetic model for **hydroformylation** of
polyisobutene. Cross-sectional drawings illustrating a
cylindrical reactor are included.